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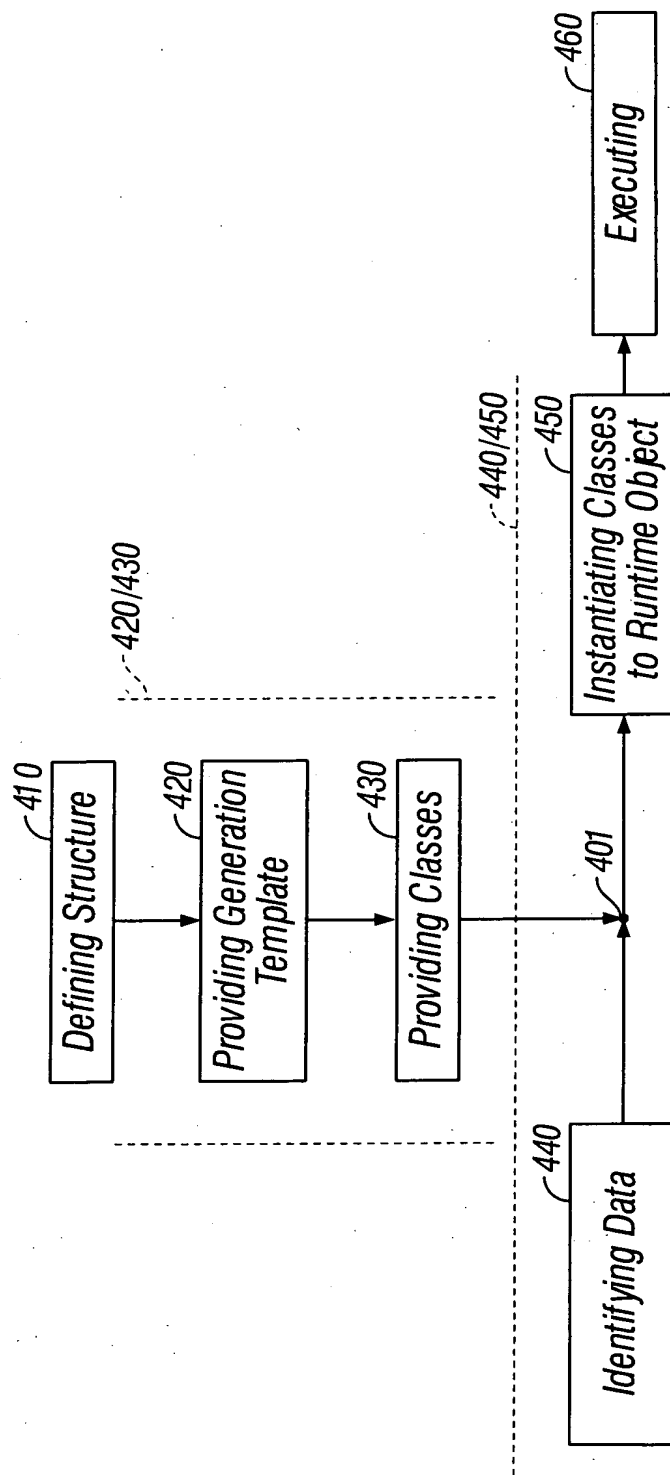


FIG. 1

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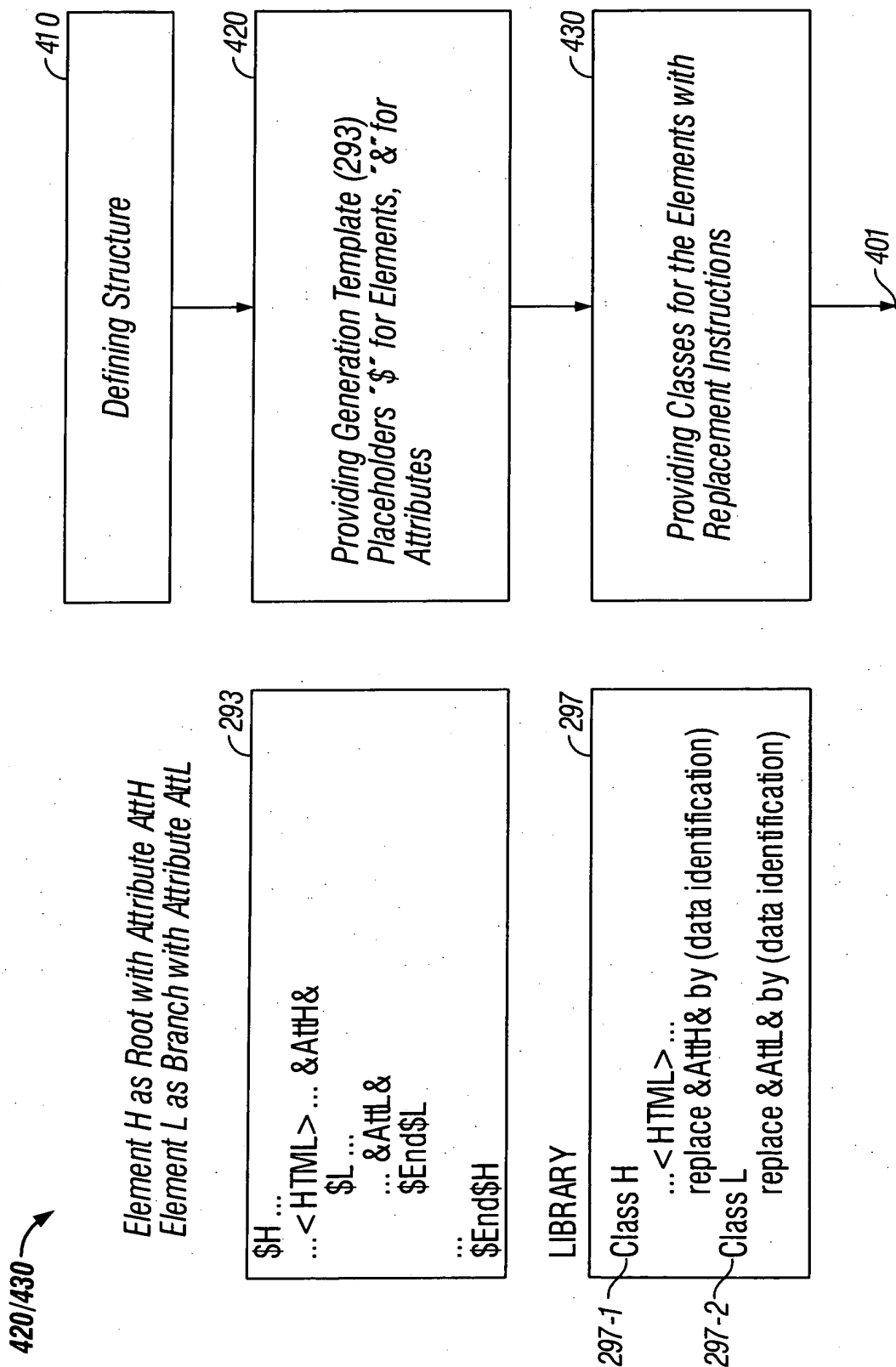


FIG. 2

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440/450 →

cf. FIG. 2

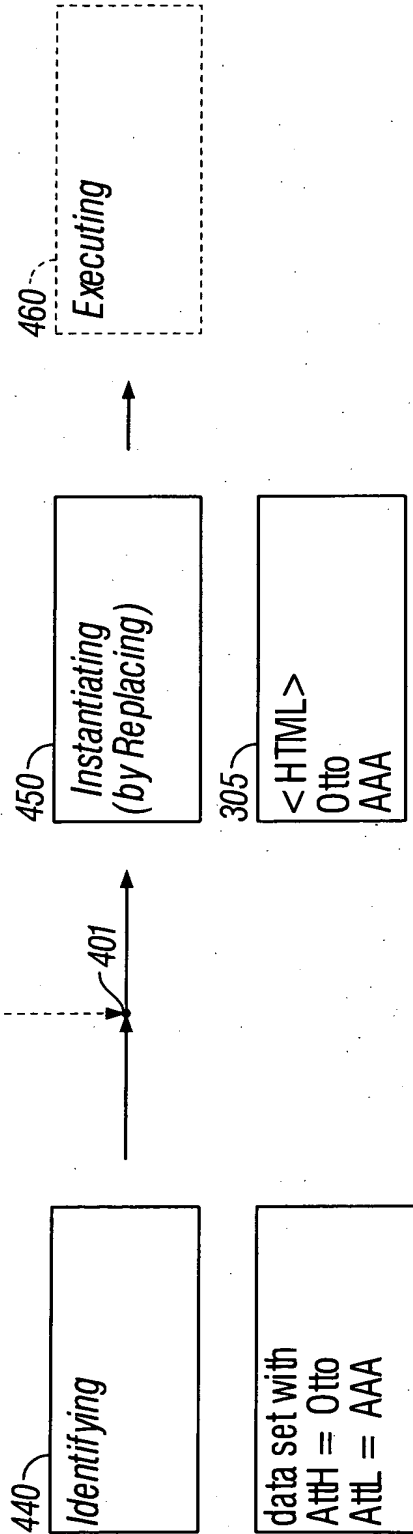


FIG. 3

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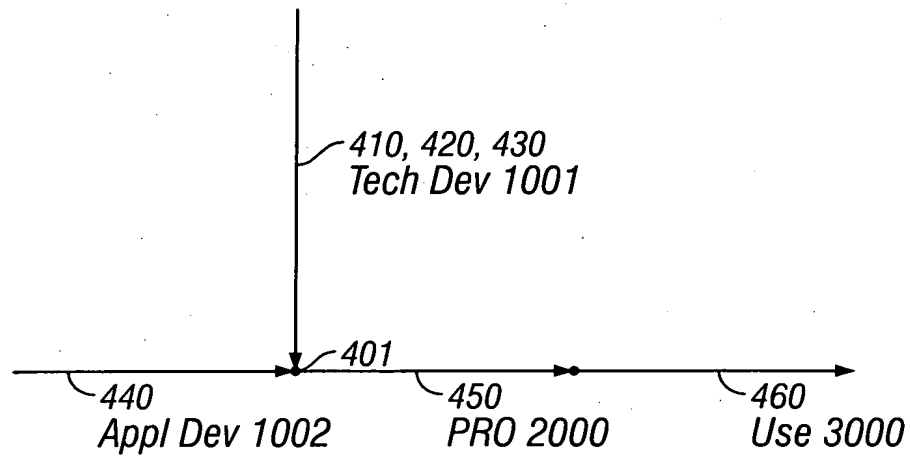


FIG. 4

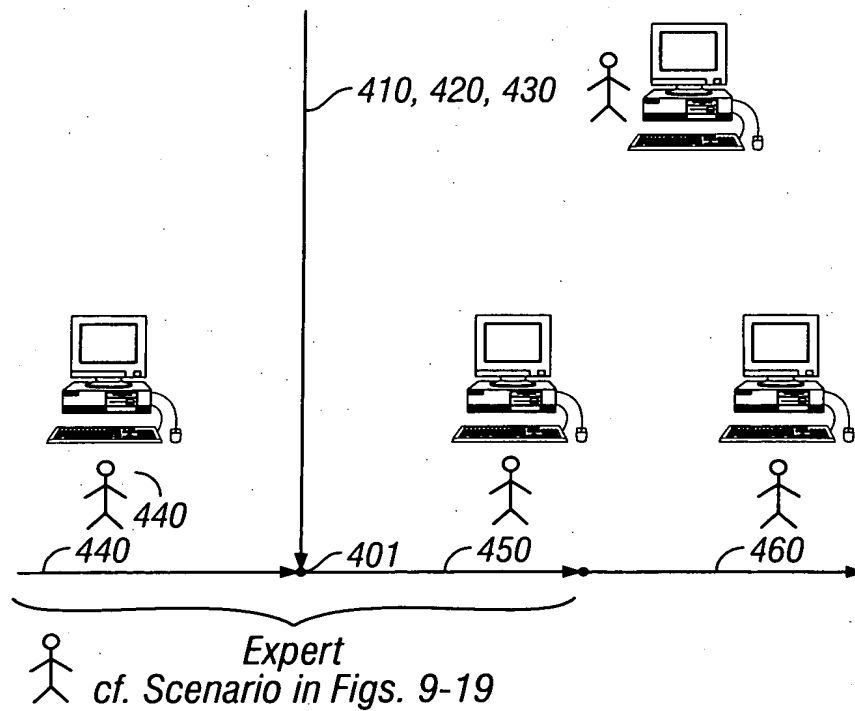


FIG. 5

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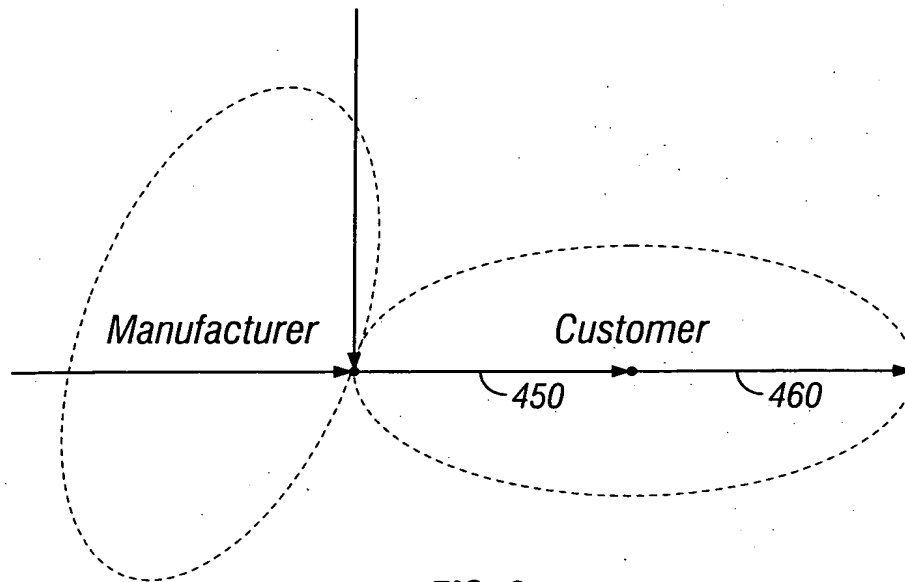


FIG. 6

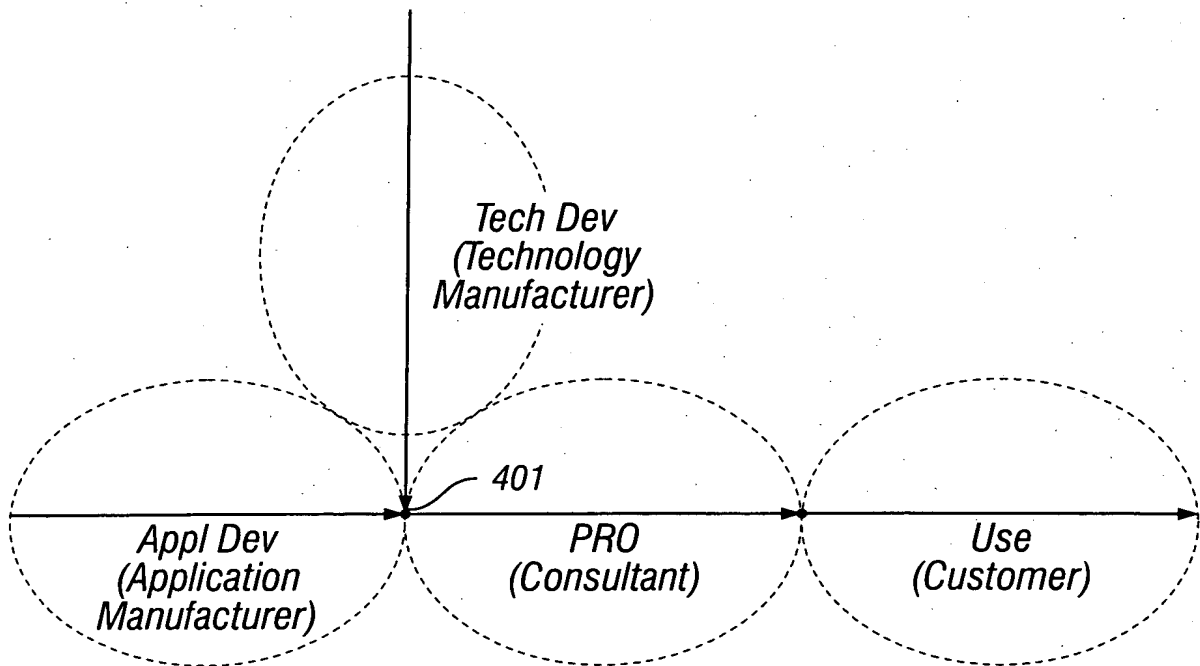


FIG. 7

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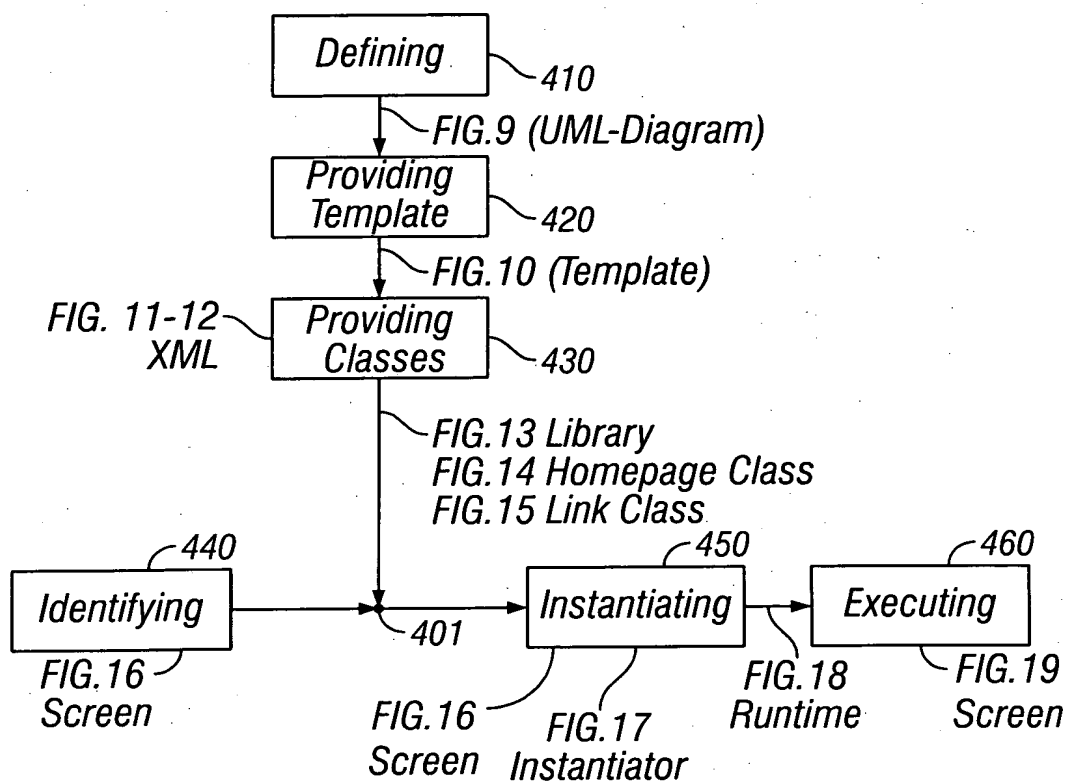


FIG. 8

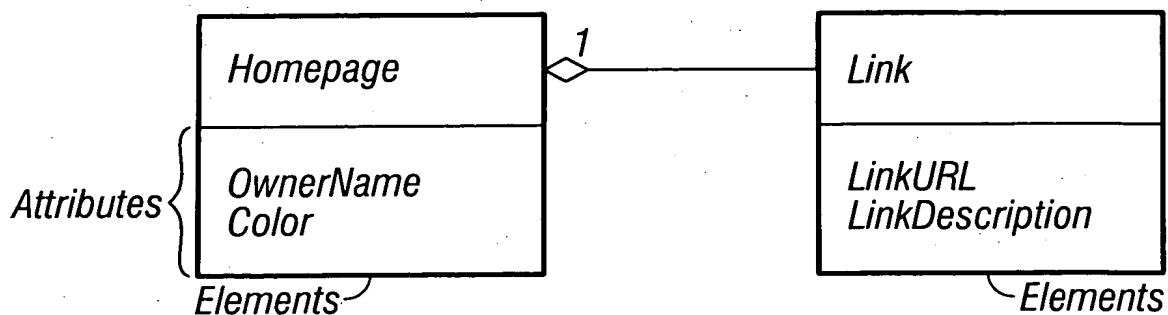


FIG. 9

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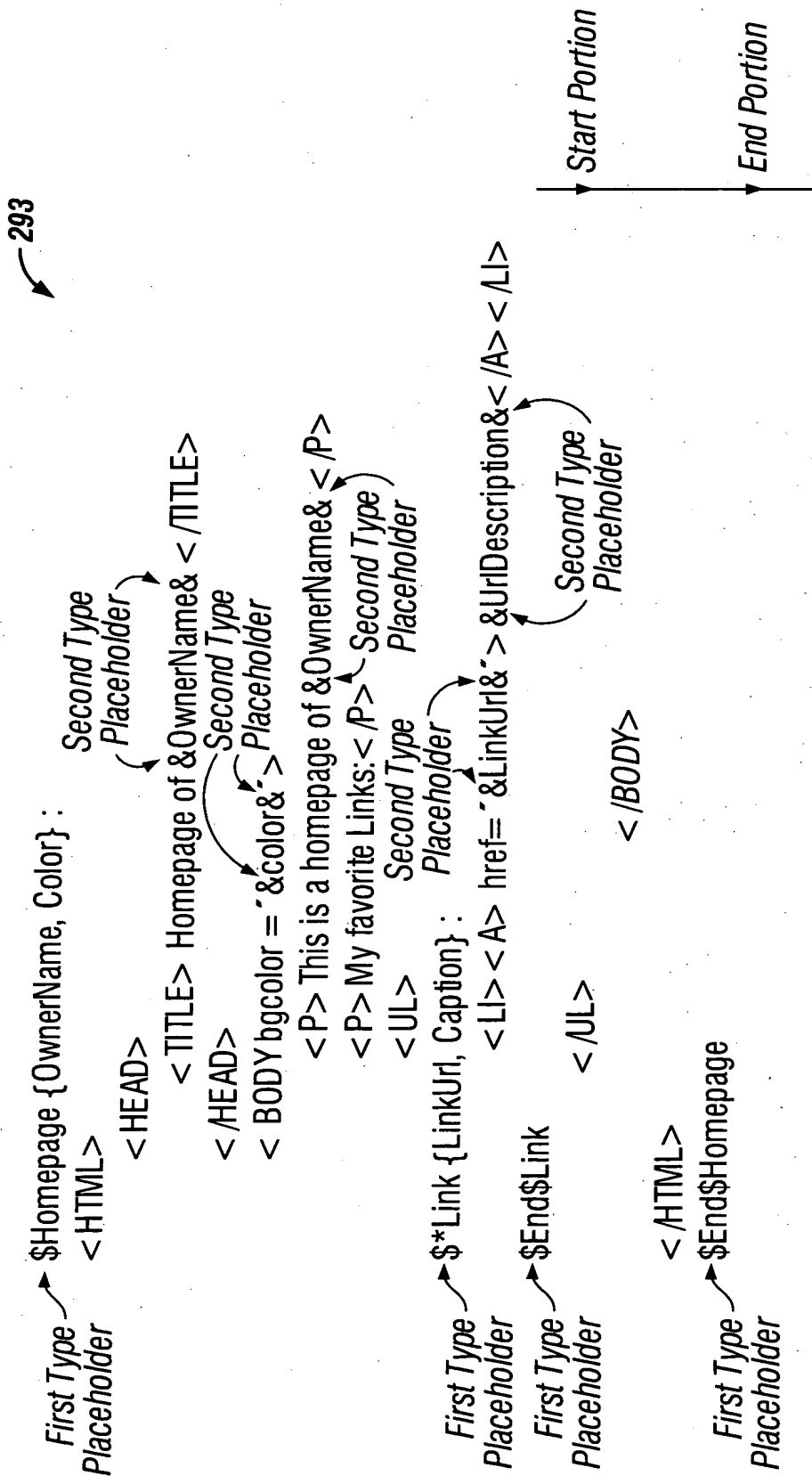


FIG. 10

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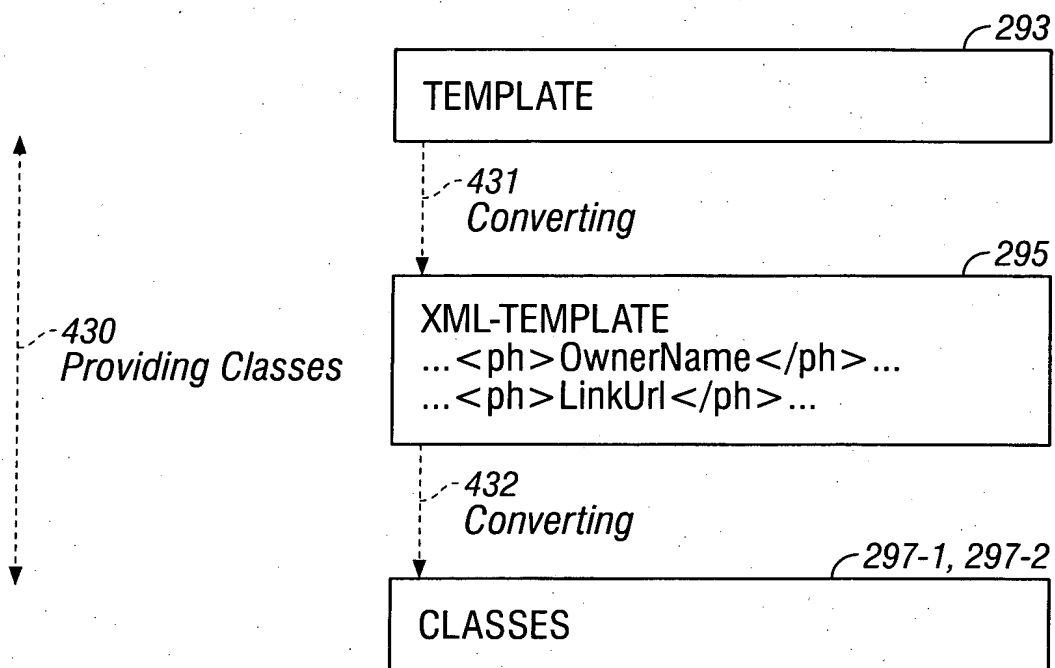


FIG. 11

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295 →

```

01  <?xml version="1.0"?>
03  <production name="Homepage">
05  <param name="Color">
07  <![CDATA[<HTML>
09  <HEAD><TITLE>Homepage of <ph>OwnerName</ph></TITLE></HEAD>
11  <BODY bgcolor=" "><ph>Color</ph>">
13  <P> This is a homepage of <ph>OwnerName</ph></P>
15  <P> My favorite Links:</P>
17  <UL>
19  <pph>Link</pph>
21  </UL>
23  </BODY> </HTML>
25  ]]>
27  </template>
29  <param name="LinkUrl">
31  <production name="Link" Cardinality="multiple">
33  <param name="LinkDescription">
35  <template>
37  <![CDATA[
39  <LI><A href=" "><ph>LinkUrl</ph>"></LI>
41  </ph></A></LI>
43  ]]>
45  </template> </production>
47  </library>
    
```

FIG. 12

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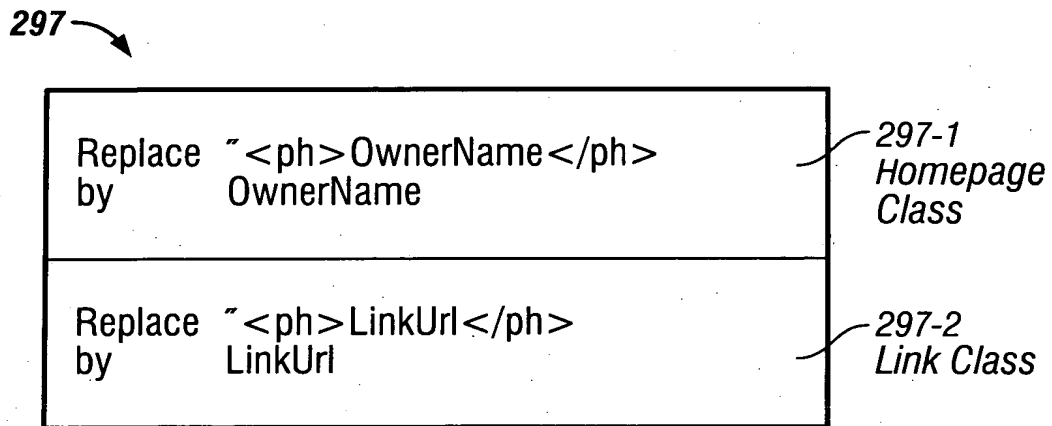


FIG. 13

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297-1 →

```

1  Option Explicit
3  Public OwnerName As String
5  Private mLinks As Collection
7  Private Property Get Template() As String
9      Template = "<HTML>Ã°
11     <ph> OwnerName</ph>< /TITLE>Ã°
13     <HEAD>Ã°
15     </HEAD>Ã°
17     <P> This is a homepage of <ph> OwnerName</ph>< /P>Ã°
19     Links:< /P>Ã°
21     <UL>Ã°<pph> Link</pph>Ã°
23     </BODY>Ã°< /HTML>Ã°"
25 End Property

Public Function Render() As String
    Dim theCode As String, innerCode As String
    Dim colltem As IASTNode

    theCode = Template
    innerCode = ""
    For Each colltem In mLinks
        innerCode = innerCode & colltem.Render()
    Next
    theCode = Replace(theCode, "<pph> Link</pph>", innerCode)
    theCode = Replace(theCode, "<ph> OwnerName</ph>", OwnerName)
    theCode = Replace(theCode, "<ph> Color</ph>", Color)
    theCode = Replace(theCode, "Ã°", vbNewLine)
    theCode = Replace(theCode, "Ã±", "")
    Render = theCode
End Function
    
```

FIG. 14A

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297-1
(Cont.)

```
27 Private Function IASTNode_Render() As String
29     IASTNode_Render = Render()
31 End Function
33 Public Function AddLink (ByVal pLinkUrl As String, ByVal pUrlDescription As String) As
    ASTLink
35     Dim 1Link As ASTLink
37     Set 1Link = New ASTLink
39     1Link.Initialize pLinkUrl, pUrlDescription
41     mLinks.Add 1Link
43     Set AddLink = 1Link
45     Set 1Link = Nothing
47 End Function
49 Public Sub Initialize (ByVal pOwnerName As String, ByVal pColor As String)
    OwnerName = pOwnerName
    Color = pColor
    End Sub
Private Sub Class_Initialize()
    Set mLinks = New Collection
    End Sub
Private Sub Class_Terminate()
    Set mLinks = Nothing
    End Sub
```

FIG. 14B

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297-2 →

```

1  Option Explicit                                Implements IASTNode
3  Public LinkUrl As String
   Public UrlDescription As String
5  Private Property Get Template() As String
       Template = "
7  href=Ã±<ph>LinkUrl</ph>Ã±><ph>UrlDescription</ph></A></LI>Ã°" End Property
       <LI><A
9  Public Function Render() As String
       Dim theCode As String, innerCode As String
       Dim colltem As IASTNode
       theCode = Template
       theCode = Replace(theCode, "<ph>LinkUrl</ph>", LinkUrl)
       theCode = Replace(theCode, "<ph>UrlDescription</ph>", UrlDescription)
       theCode = Replace(theCode, "Ã°", vbNewLine)
       theCode = Replace(theCode, "Ã±", "''")
       Render = theCode
17                                     End Function
19
   Private Function IASTNode_Render() As String
       IASTNode_Render = Render()
21                                     End Function
   Public Sub Initialize (ByVal pLinkUrl As String, ByVal pUrlDescription As String)
       LinkUrl = pLinkUrl
       UrlDescription = pUrlDescription
23                                     End Sub
    
```

FIG. 15

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Homepage Maker	
OwnerName	<input type="text" value="Otto"/>
Color	<input type="text" value="White"/>
LinkUrl	<input type="text" value="bbb.xx"/>
LinkDescription	<input type="text" value="BBB"/>
<input type="button" value="Instantiate"/>	

FIG. 16

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250 → Private Sub rtInstantiate_Click() → Activation by Expert

Dim objAST As ASTHomepage
Dim i As Long
Dim sBuf As String
Dim objTS As TextStream

Set objAST = New ASTHomepage
Call objAST.Initialize(txtOwnerName.Text, txtColor.Text)

For i = 0 To 1stLinks.ListCount - 2
objAST.AddLink 1stLinks.List(i+1), 1stLinks.List(i) } Calling "Replace"

Next
sBuf = objAST.Render

Set objTS = mPSO.CreateTextFile(txtOwnerName.Text & ".html") → 305 Identification of Runtime Objects
objTS.Write sBuf
objTS.Close

MsgBox "Done!"

End Sub

FIG. 17

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```
<HTML>

<HEAD>
  <TITLE> Homepage of Otto</TITLE>
</HEAD>
<BODY bgcolor="white">
  <P> This is a homepage of Otto</P>
  <P> My favorite Links:</P>
  <UL>
    <LI><A href="http://www.aaa.xxi"> AAA</A></LI>
    <LI><A href="http://java.bbb.xx"> BBB</A></LI>
  </UL>
</BODY>
</HTML>
```

Particular Attributes

Particular Attributes

Particular Attributes

Particular Attributes

Particular Attributes

FIG. 18